

Demonstration

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1. Overview

Provided the user is familiar with various components which comprise the aDORe Archive, this demonstration will introduce the user to the following:

- What configurations exist? What does each define?
- How do I create a new processing profiles?
- What is a processing profile?
- How does the aDORe Archive ingest content?
- How do I retrieve content after ingestion?

2. Configuring aDORe Archive

aDORe Archive configurations are stored in a properties file similar to
\$install_dir/adoreArchive/adore-archive/etc/archive.properties.

Key configurables include:

```
* adoreArchive.Organization
- Defines the local OpenURL SID
- (i.e. adoreArchive.Organization=info:sid/library.lanl.gov)

* adoreArchive.tmpDir
- Defines the path to a tmp processing directory
- (i.e. adoreArchive.tmpDir=tmp)

* adore-arcfile.ResolverURL
- Defines the BaseURL path to the ARCfile Resolver
- (i.e.
adore-arcfile.ResolverURL=http://localhost:8080/adore-arcfile-resolver/resolver)

* adore-arcfile.StoreDirectory
- Defines the ARCfile Storage Directory Path
- (i.e.
adore-arcfile.StoreDirectory=$install_dir/adoreArchive/adore-archive/data/arc)

* adore-arcfile.IndexDirectory
- Defines the ARCfile Index Directory Path
- (i.e.
adore-arcfile.IndexDirectory=$install_dir/adoreArchive/adore-archive/data/tape)

* adore-arcfile.Compression
- Defines whether or not compression should be applied to arc files
- (i.e. adore-arcfile.Compression=false)

* adore-arcfile.PrefixURL
- Defines the Local ARCfile Prefix
- (i.e. adore-arcfile.PrefixURL=info:lanl-repo/arc/)
```

```
* adore-arcfile-registry.OAIURL
- Defines the BaseURL path to the OAI-PMH ARCfile Registry
- (i.e.
adore-arcfile-registry.OAIURL=http://localhost:8080/adore-arcfile-registry/OAIHandler)

* adore-arcfile-registry.PutRecordURL
- Defines the BaseURL path to the OAI-PMH Arc Registry
- (i.e.
adore-arcfile-registry.PutRecordURL=http://localhost:8080/adore-arcfile-registry/PutRec

* adore-xmltape.ResolverURL
- Defines the BaseURL path to the XMLtape Resolver
- (i.e.
adore-xmltape.ResolverURL=http://localhost:8080/adore-archive-accessor/Handler/)

* adore-xmltape.StoreDirectory
- Defines the XMLtape Storage Directory Path
- (i.e.
adore-xmltape.StoreDirectory=$install_dir/adoreArchive/adore-archive/data/tape)

* adore-xmltape.IndexDirectory
- Defines the XMLtape Index Directory Path
- (i.e.
adore-xmltape.IndexDirectory=$install_dir/adoreArchive/adore-archive/data/tape)

* adore-xmltape-index.Plugin
- Defines the Adore Archive XMLtape Indexing Plug-in class name
- (i.e. adore-xmltape-index.Plugin=gov.lanl.xmltape.index.BasicTapeIndex)

* adore-xmltape-registry.OAIURL
- Defines the BaseURL path to the OAI-PMH XMLtape Registry
- (i.e.
adore-xmltape-registry.OAIURL=http://localhost:8080/adore-xmltape-registry/OAIHandler)

* adore-xmltape-registry.PutRecordURL
- Defines the BaseURL path to the XMLtape Registry PutRecord servlet
- (i.e.
adore-xmltape-registry.PutRecordURL=http://localhost:8080/adore-xmltape-registry/PutRec
```

3. Creating a New Processing Profile

First, let's define a processing profile. A Processing Profile is a configuration grouping which defines how source content should be pre-processed to create XMLTapes and ARCfiles for ingestion into the aDORe Archive. The Adore Archive provides a robust plug-in architecture which allows developers to pre-process content prior to indexing and registration. Our processing profile, which we'll name 'test' will simply copy the source XMLtape/ARCfiles to their respective archive storage directories. For each processing profile, a new profile reference will need to be created in the archive.properties file.

The configuration grouping includes:

```

* <profilePrefix>.FullName
- Define the full name of Collection Profile
- (i.e. test.FullName=info:sid/library.lanl.gov:test)

* <profilePrefix>.pmh-defaultproperty
- Define the Collection PMH Default Properties filepath
- (i.e.
test.pmh-defaultproperty=$install_dir/adoreArchive/adore-archive/etc/moai/test.properties)

* <profilePrefix>.IndexSetSpecProps
- Define the Collection SetSpec XPath Properties filepath
- (i.e. test.IndexSetSpecProps
=$install_dir/adoreArchive/adore-archive/etc/XPath.properties)

```

4. Content Ingestion

Before we perform a first content ingestion, let's ensure our Tomcat and MySQL services are running.

To verify your Tomcat instance is running, open <http://localhost:8080/>. The Tomcat Servlet Engine should appear.

To verify your MySQL instance is running, log in using the arc_registry user using the following command: `mysql -u arc_registry -p`. Enter the appropriate db password when prompted to do so. MySQL should welcome you and provide you with a mysql query prompt. Type 'exit' to return to your shell prompt.

For this demonstration, we'll ingest a set of pre-constructed XMLTape and ARCFiles. The contents of the XMLTape and ARCFiles were derived from the Library of Congress' American Memory Project. Refer to the aDORe Archive [Tutorial](#) for additional information on how to create XMLTapes and ARCfile from public resources such as those found in the American Memory project.

The demonstration will perform the following functions:

- Pass file-path refs for configuration file, XMLTape and ARCFile to ingestion application along with the processing profile id.
- Copy the source XMLtape/ARCfiles to their respective archive storage directories.
- Index XMLTape using the specified adore-xmltape-index.Plugin implementation.
- Index ARCfile to create a CDX file.
- Register XMLTape using the defined adore-xmltape-registry.PutRecordURL interface.
- Register ARCfile using the defined adore-arcfile-registry.PutRecordURL interface.

```

Run the following command:
sh ./demo.sh <install_dir> (i.e. ./demo.sh
/opt/adoreArchive/adore-archive)

```

5. Content Retrieval

To verify that our new XMLTape was properly registered, let's make an OAI-PMH ListRecords request to the XMLTape Registry:

<http://localhost:8080/adore-xmltape-registry/OAIHandler?verb=ListRecords&metadataPrefix>

To verify that our new ARCfile was properly registered, let's make an OAI-PMH ListRecords request to the ARCfile Registry:

<http://localhost:8080/adore-arcfile-registry/OAIHandler?verb=ListRecords&metadataPrefix>

To retrieve the contents of our XMLTape, let's make an OAI-PMH ListRecords request to the Archive Accessor:

<http://localhost:8080/adore-archive-accessor/Handler/demoTape?verb=ListRecords&metadata>

To retrieve the contents of our ARCfile, let's make an OpenURL request to the ARCfile Resolver:

http://localhost:8080/adore-arcfile-resolver/resolver?res_id=info:lanl-repo/arc/472de88